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(54) SHEET-LIKE PACK AGENT

(57)Abstract:

PURPOSE: To obtain a sheet-like pack agent usable for a quasi-drug or a cosmetic used for conditioning and beautifying of the skin by including a water-soluble polymer, a polyhydric alcohol, a humectant component, a curing agent, a skin beautifying component and water as active components, and further added with an antiseptic agent, as necessary.

CONSTITUTION: This sheet-like pack agent contains a water-soluble polymer (suitably gelatin or a polyacrylic acid salt), a polyhydric alcohol (suitably glycols), a humectant component (suitably an aqueous solution of an acylated kefiran or an extract of malt), a curing agent (suitably a hardly water-soluble aluminum compound or a polyfunctional epoxy compound), a skin beautifying component (suitably an extract of placenta or allantoin) and water. The pack agent may further be added with an antiseptic agent (e.g. benzoic acid). The pack agent is simply handled and has a suitable tackiness to the skin and a use feeling, and furthermore, has an excellent safety to the skin and is remarkably excellent in stability of preparation properties with passage of time, and also, has an excellent cooling effect due to a high water content to induce a comfortable refrigerant feeling.

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CLAIMS

[Claim(s)]

[Claim 1] The sheet-like pack agent characterized by containing a water soluble polymer, polyhydric alcohol, a moisturizing component, a cross linking agent, a lustrous skin component, and water as an ndispensable component.

Claim 2] The sheet-like pack agent according to claim 1 characterized by blending antiseptics into said ndispensable component.

Claim 3] The sheet-like pack agent according to claim 1 to which said cross linking agent comes out said moisturizing component 1 0.01 to 20% of the weight one to 35% of the weight, said water comes out [said lustrous skin component] 60 to 95% of the weight 0.01 to 20% of the weight 0.05 to 20% of he weight, and said polyhydric alcohol is characterized by a certain thing three to 25% of the weight by said water soluble polymer in said indispensable component.

Claim 4] The sheet-like pack agent according to claim 2 characterized by the loadings of the antiseptics plended into said indispensable component being 0.005 - 10 % of the weight.

Claim 5] The sheet-like pack agent according to claim 1 or 3 characterized by said water soluble polymer consisting of one sort of gelatin and polyacrylate, or two sorts or more.

Claim 6] The sheet-like pack agent according to claim 1 or 3 characterized by said polyhydric alcohol eing glycols.

Claim 7] The sheet-like pack agent according to claim 1 or 3 which said moisturizing component becomes from one sort of an acylation KEFIRAN water solution and a malt extract, or two sorts. Claim 8] The sheet-like pack agent according to claim 1 or 3 characterized by said cross linking agent consisting of any one sort or such combination of a water poorly soluble aluminium compound or a polyfunctional epoxy compound.

Claim 9] The sheet-like pack agent according to claim 1 or 3 characterized by said lustrous skin component consisting of one sort of water-soluble placental extract and allantoin, or two sorts.

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DETAILED DESCRIPTION

Detailed Description of the Invention]

00011

Industrial Application] This invention relates to the sheet-like pack agent used as the object for quasi drugs used for the ready skin and cosmetics, or an object for cosmetics.

0002]

Description of the Prior Art] In recent years, the pack agent which has the film forming ability of the hape of the shape of O/W emulsion which contains water soluble polymers, such as polyvinyl alcohol, is a pack agent, and jelly is marketed. This kind of pack agent takes an initial complement in its hand at he time of use, the component in a pack agent is supplied by applying to a face, and dirt and the aged teratin of the skin are removed by exfoliating after desiccation. However, this kind of pack agent had he trouble that a hand becomes dirty at the time of spreading, and the trouble that were easy to produce he back remainder at the time of exfoliation, and desiccation took long duration, and it was not simple. Then, excel in the water retention which used polyacrylate, polyhydric alcohol, and water as the principal component in order to improve these troubles, and let the pack agent (JP,54-49334,A) of the ow exfoliation force, and polyacrylate and an excipient be principal components. The pack agent JP,63-15243,B) which contained, was rich in size enlargement nature, and was excellent in water etention, and the sheet-like pack agent (each official report of JP,1-46485,B, JP,63-60724,B, JP,58-80408,A, and JP,61-260007,A) using bridge formation mold water gel as a base material are indicated, nd the skin external preparations (JP,5-301812,A) which were excellent in the feeling of use which lended the natural origin moisturizing component further, the pack agent which blended the natural origin semisynthesis component as a moisturizer and a thickener, and cataplasms (JP,5-295004,A) are ndicated.

0003]

Problem(s) to be Solved by the Invention] However, in the above-mentioned conventional pack agent r the sheet-like pack agent, it had the trouble that the moderate adhesiveness over the skin was missing and a feeling of use was missing. Since the stability of pharmaceutical preparation physical properties with the passage of time was bad, while storage nature was missing, it had the trouble that the safety to be skin was missing. Moreover, since the compatibility of the moisturizing component in harmaceutical preparation surpasses, the emission nature of the hydration to the skin or a moisturizing component is missing, and it has the trouble that the pack effectiveness over the skin is weak as a result surthermore, while the water retention of the pharmaceutical preparation itself was missing, it had the rouble that a feeling of moisturization could not be most effectively given to the skin. [2004] While this invention solves the above-mentioned conventional trouble, and can use it simple, and as the moderate adhesiveness and the moistness over the skin and excelling in the stability of harmaceutical preparation physical properties, or the safety to the skin, it aims at offering the sheet-like ack agent of high water excellent in the pack effectiveness over a feeling of use and the skin at the time of use.

0005]

[Means for Solving the Problem] In order to attain this purpose, the sheet-like pack agent of this invention has the following configurations. That is, the sheet-like pack agent according to claim 1 has the configuration which contains a water soluble polymer, polyhydric alcohol, a moisturizing component, a cross linking agent, a lustrous skin component, and water as an indispensable component. The sheet-like pack agent according to claim 2 has the configuration with which antiseptics are blended into said indispensable component in claim 1. In claim 1, one to 35% of the weight, said cross linking agent comes out [said moisturizing component] 0.01 to 20% of the weight, said water comes out [said lustrous skin component] 60 to 95% of the weight 0.01 to 20% of the weight 0.05 to 20% of the weight, and, as for the sheet-like pack agent according to claim 3, said water soluble polymer in said indispensable component has [said polyhydric alcohol] a certain configuration three to 25% of the weight. The sheet-like pack agent according to claim 4 has the configuration whose loadings of the antiseptics blended into said indispensable component are 0.005 - 10 % of the weight in claim 2. The sheet-like pack agent according to claim 5 has the configuration which said water soluble polymer becomes from one sort of gelatin and polyacrylate, or two sorts or more in claim 1 or 3. The sheet-like pack agent according to claim 6 has the configuration said whose polyhydric alcohol is glycols in claim 1 or 3. The sheet-like pack agent according to claim 7 has the configuration which said moisturizing component becomes from one sort of an acylation KEFIRAN water solution and a malt extract, or two sorts in claim 1 or 3. The sheet-like pack agent according to claim 8 has the configuration which said cross linking agent becomes from any one sort or such combination of a water poorly soluble aluminium compound or a polyfunctional epoxy compound in claim 1 or 3. The sheet-like pack agent according to claim 9 has the configuration which said lustrous skin component becomes from one sort of watersoluble placental extract and allantoin, or two sorts in claim 1 or 3. In addition, an antioxidant, a tackifier, a resolvent, coloring matter, perfume, a surfactant, an ultraviolet ray absorbent, an inorganic bulking agent, and pH regulator can be blended if needed into pharmaceutical preparation. [0006] Here, as a water soluble polymer, gelatin and polyacrylate are raised, and it is independent respectively or can be used, being able to blend these. As salts of polyacrylate, metal salts, such as sodium, a lithium, and a potassium, are desirable, and, as for the average degree of polymerization, the thing of 1000-100000 is used suitably. As loadings of these water soluble polymers, it is preferably used in 5 - 10 % of the weight five to 20% of the weight three to 25% of the weight. Coherent of pharmaceutical preparation / the adhesiveness or coherent], shape retaining property, water absorption power, etc. are reduced as loadings become 5 or less % of the weight, it is easy to produce the inclination which causes ununiformity-izing of a plaster body, the fall of workability, and the fall of a feeling of use, and at less than 3 % of the weight, since the inclination is remarkable, it is not desirable. Moreover, while coherent [of pharmaceutical preparation / the adhesiveness or coherent], and shape retaining property are missing as loadings become 10% of the weight or more and viscosity increases too much during manufacture, since the inclination is remarkable when it is easy to produce the inclination which causes ununiformity-izing of a plaster body, the fall of workability, and the fall of a feeling of use and exceeds 25 % of the weight, it is not desirable. [0007] While glycols are desirable and it is used as polyhydric alcohol as distribution and a resolvent, or plasticizers, such as a water soluble polymer, a moisturizing component, a cross linking agent, a lustrous skin component, and antiseptics, the emission nature and vaporization nature of water can be promoted. By having the structure of a polyether, and using this property, since there are few hydroxyl groups as compared with the polyhydric alcohol of low molecular weight generally used and a hydrophilic property is inferior, the glycols raised here can reduce the critical relative humidity of the basis component except water, and it can emit more water outside at the time of use. Comfortable coolness is given at the same time it takes heat of vaporization and suppresses a hot flash of a face and inflammation, when grace is given to the skin as the result and water vaporizes outside. Moreover, also when the temperature dependence of viscosity is small and it blends into pharmaceutical preparation as compared with the polyhydric alcohol of low molecular weight generally used, the stable shape retaining

property which is not influenced by the environmental variation can be shown. As glycols which have the structure of a polyether, the polyethylene glycol and mean molecular weight of 200-600 have the

desirable polypropylene glycol of 500-3000, and a mean molecular weight can blend and use these one sort or two sorts or more. The loadings of this polyhydric alcohol are preferably used in 5 - 20 % of the weight five to 25% of the weight one to 35% of the weight. The inclination which causes the fall of the feeling of use after the time of the fall of coherent [of pharmaceutical preparation / the adhesiveness or coherent], the water retention before use, and shape retaining property, ununiformity-izing of gel, the fall of workability, and use and use is accepted, and since the inclination is remarkable, at especially less than 1 % of the weight, it is not desirable, as loadings become 5 or less % of the weight. Moreover, since the inclination is remarkable especially when the inclination which coherent [of pharmaceutical preparation / the adhesiveness or coherent], the water retention before use, and shape retaining property fall, and causes the fall of a broth and workability and the fall of the feeling of use after the time of use and use is accepted and it exceeds 35 % of the weight, it is not desirable as loadings become 20% of the weight or more.

[0008] As a moisturizing component, an acylation KEFIRAN water solution (three-ministry medicine manufacture incorporated company make) and/or a malt extract are used suitably, and these one sort or two sorts or more can be blended and used. An acylation KEFIRAN water solution is what generated KEFIRAN which cultivated and refined KEFIRAN and the KEFIRAN production bacillus which carried out extract purification from KEFIRU or a grain according to acylation partial at least by the acid anhydride, the carboxylic acid, or its halide, and can use succinyl KEFIRAN, acetyl KEFIRAN, Maley Luke Filan, etc. An acylation KEFIRAN water solution has various pharmacology effectiveness, and gives the function as a natural origin moisturizing component. Moreover, the malt root extractives obtained from the root (malt root) of the wheat of the malt extract extracted and obtained by the extractives or ethanol which squeezes a barley malt as a malt extract and is obtained, or a barley malt condition are used, and especially malt root extractives are fibrocyte collagen production ability promoters, and are desirable in respect of an aging prevention operation of the skin etc. The loadings of these moisturizing components are preferably used in 0.1 - 5 % of the weight 0.05 to 10% of the weight 0.01 to 20% of the weight. While reducing the water retention and shape retaining property of pharmaceutical preparation as loadings become 0.1 or less % of the weight, the inclination which causes the fall of the feeling of use after the time of use and use is accepted, and at especially less than 0.01 % of the weight, since the inclination is remarkable, it is not desirable. Moreover, since the inclination is remarkable especially when reduce coherent [of pharmaceutical preparation / the adhesiveness or coherent], and shape retaining property, ununiformity-ization of gel is brought about, the inclination which causes the fall of the feeling of use after the time of the fall of workability and use and use is accepted and it exceeds 20 % of the weight, it is not desirable as loadings become 5% of the weight or

[0009] As a cross linking agent, a water poorly soluble aluminium compound and a polyfunctional epoxy compound are independent, or the compounding agent which blended these is used. As for the compounding ratio (weight ratio) of the water poorly soluble aluminium compound (a) of a compounding agent, and a polyfunctional epoxy compound (b), a/b=500 / 1 - 1/10 are used. By using a compounding agent, it can contribute to the water retention at the time of intact, shape retaining property, and the outstanding stability of pharmaceutical preparation physical properties with the passage of time. As a water poorly soluble aluminium compound, an aluminum hydroxide, hydrated Al silicates, synthetic aluminum silicate, a kaolin, aluminium acetate, lactic-acid aluminum, aluminum stearate, etc. are raised, and these one sort or two sorts or more can be blended and used. Since the water poorly soluble aluminium compound was used, while giving reinforcement moderate to gel to initial physical properties as a bulking agent in addition to the skin astriction by the aluminum ion of the depressor effect of the skin irritation by **** operation, or a minute amount, aluminum ion is eluted in pharmaceutical preparation in aging, and the function to compensate the fall of the gel strength by disassembly of a macromolecule with the passage of time and cutting of the covalent-bond bridge formation section between macromolecules with the passage of time can be presented. Furthermore, it is also possible to control the aluminum rate of dissolution by pH adjustment. As a polyfunctional epoxy compound, polyethylene glycol diglycidyl ether, Ethylene glycol diglycidyl ether, glycerol diglycidyl

ether, Glycerol triglycidyl ether, propylene glycol diglycidyl ether, Polyglycerol polyglycidyl ether, sorbitol polyglycidyl ether, Sorbitan polyglycidyl ether, trimethylolpropane polyglycidyl ether, pentaerythritol polyglycidyl ether, resorcinol diglycidyl ether, neopentyl glycol diglycidyl ether, etc. are raised. One sort of these polyfunctional epoxy compound or two sorts or more can be blended and used. Since the polyfunctional epoxy compound was used, the outstanding water absorption power and shape retaining property can be obtained, covalent bond is efficiently occurred with the water soluble polymer which has a carboxyl group, an amino group, or a hydroxyl group, and gel strength can be raised. As loadings to the pharmaceutical preparation of a cross linking agent, it is preferably used in 1 - 10 % of the weight 0.5 to 15% of the weight 0.05 to 20% of the weight. The inclination which causes the fall of coherent [of pharmaceutical preparation], shape retaining property, and water absorption power, the fall of the stability of pharmaceutical preparation physical properties with the passage of time, the fall of workability, the fall of the safety to the skin, and the fall of a feeling of use is accepted, and since the inclination is remarkable, at especially less than 0.05 % of the weight, it is not desirable, as loadings become 1 or less % of the weight. Moreover, since the inclination is remarkable especially when the inclination which causes adhesiveness, coherent, shape retaining property, too much formation of a viscosity increase under manufacture, ununiformity-izing of the plaster body by gelation, the fall of workability, the fall of the safety to the skin, and the fall of a feeling of use is accepted and it exceeds 20 % of the weight, it is not desirable as loadings become 10% of the weight or more. [0010] As a lustrous skin component, one sort or two sorts or more of compounds, water-soluble placental extract and allantoin, are used suitably. As other lustrous skin components, in addition, lecithin, amino acid, kojic acid, protein, The extract component from various crude drugs, such as a saccharide, hormone, a placenta extract or an aloe, a luffa, and liquorice, Or vitamin A, vitamin C, vitamin D, vitamin E, and other vitamins, diphenhydramine hydrochloride, Diphenhydramine salicylate, diphenhydramine tannate, triprolidine hydrochloride, Mequitazine, chlorpheniramine maleate, dchlorpheniramine maleate, Clemastine fumarate, promethazine hydrochloride, tranilast, disodium cromoglycate, Ketotifen, the allyl compound sulfatase B, bufexamac, bendazac, Flufenamic acid butyl, ibuprofen, indomethacin, aspirin, Flurbiprofen, ketoprofen, piroxicam, and 2-pyridine methyl mefenamic acid, 5, 6-DEHIDORO arachidonic acid, 5, 6-methano-LTA4, the esculetin, and you -punishment -- phosphorus and 4-DEMECHIRU you -- punishment -- the drug which has a whitening operation of phosphorus, a caffeine acid, BENOKISAPUROFEN, etc. -- independent -- or it can be used, being able to blend. Water-soluble placental extract is the extractives extracted after carrying out blood removal from the placenta of a healthy cow or a healthy pig, and has the whitening effectiveness, the cell activation effectiveness, circulation promotion, metabolism sthenia, melanin generation depressant action, a cell proliferation operation, etc. Moreover, to the operation and coincidence which remove the sphacelus and a dander (exfoliation), allantoin promotes generation of new skin tissue, and has an operation of cell proliferation, antiallergic, anti-inflammation, an anti-stimulus, etc. in them. As for the loadings of a lustrous skin component, 0.1 - 5 % of the weight is blended more preferably 0.05 to 10% of the weight 0.01 to 20% of the weight. The inclination which a beautiful skin effect falls and causes the fall of the feeling of use after the time of broth use and use appears, and since the inclination is remarkable, at a broth and especially less than 0.01 % of the weight, it is not desirable, as loadings become 0.1 or less % of the weight. Moreover, since the inclination will become remarkable especially if the inclination which causes the fall of the feeling of use after the time of the fall of coherent [of pharmaceutical preparation / the adhesiveness or coherent], the water retention before use, and shape retaining property, ununiformity-izing of gel, the fall of workability, and use and use appears and it exceeds a broth and 20 % of the weight, it is not desirable as loadings become 5% of the weight or more.

[0011] As water, purified water, sterilized water, and natural water are used. Water works as distribution and resolvents, such as a water soluble polymer, a moisturizing component, a cross linking agent, a lustrous skin component, and antiseptics, and raises remarkably the feeling of use after the time of use, and use. For this reason, the loadings of water must be added 65 to 90% of the weight preferably 60 to 95% of the weight as so much [it is more desirable and] as 70 - 85 % of the weight. Comfortable

coolness can be given, while taking heat of vaporization and suppressing a hot flash of a face and inflammation, when the relative humidity of the pharmaceutical preparation itself can be raised by making a lot of water contain in pharmaceutical preparation, it becomes possible since a difference with the critical relative humidity described previously can be enlarged more to discharge much water outside efficiently by the time of use, and grace is given to the skin as a result and water vaporizes outside. Although based also on the class of compounding agent, there is an inclination which causes the fall of the feeling of use after the time of the fall of the adhesiveness of pharmaceutical preparation or the water retention before use, the fall of workability, and use and use, and since the inclination is remarkable, at less than 60 % of the weight, it is not desirable, as loadings become less than 70% of the weight. Moreover, at 85 % of the weight or more, since the inclination is remarkable when there is an inclination for adhesiveness and coherent to be easy to be checked and for the shape retaining property before use to fall and it exceeds 95 % of the weight, loadings are not desirable.

[0012] As antiseptics, paraoxybenzoic acid, benzoic-acid, benzoate, salicylate, sorbic-acid, sorbic-acid salt, dehydroacetic-acid salt, 4-isopropyl-3-methyl phenol, 2-isopropyl-5-methyl phenol, phenol, hinokitiol, cresol, 2 and 4, and 4'-TORIKURORO-2'-hydroxy diphenyl ether, 3 and 4, 4'-TORIKUROROKARUBANIDO, chlorobutanol, a benzalkonium chloride, benzethonium chloride, etc. are raised, and these one sort or two sorts or more can be blended and used. As loadings, it is preferably used in 0.01 - 1 % of the weight 0.01 to 5% of the weight 0.005 to 10% of the weight. The inclination which causes the fall of the feeling of use after the time of putrefaction of the pharmaceutical preparation by generating of mold and a bacillus and use and use is during preservation, and since the inclination is remarkable, at less than 0.005 % of the weight, it is not desirable, as loadings become 0.01 or less % of the weight. Moreover, since the inclination is remarkable when there is an inclination which causes the fall of the feeling of use after the time of the fall of the adhesiveness of pharmaceutical preparation, coherent, the water retention before use, and shape retaining property, ununiformity-izing of gel, the fall of workability, generating of an antiseptics smell, and use and use and it exceeds 10 % of the weight, it is not desirable as loadings become 1% of the weight or more.

[0013] In addition to a water soluble polymer, polyhydric alcohol, a moisturizing component, a cross linking agent, a lustrous skin component, above-mentioned water, and above-mentioned antiseptics, the sheet-like pack agent of high water of this invention can carry out optimum dose combination of the compounding agents, such as a well-known antioxidant, a tackifier, a resolvent, coloring matter, perfume, a surfactant, an ultraviolet ray absorbent, an inorganic bulking agent, and pH regulator, suitably according to an application conventionally.

[0014] As an anti-oxidant, an ascorbic acid, propyl gallate, burylhydroxyanisole, dibutylhydroxytoluene, NORUJI hydronalium guaiaretic acid, a tocopherol, tocopherol acetate, etc. can be blended. As a tackifier, casein, a pullulan, an agar, a dextran, sodium alginate, Soluble starch, carboxy starch, a dextrin, a carboxymethyl cellulose, Carboxymethylcellulose sodium, methyl cellulose, ethyl cellulose, Hydroxyethyl cellulose, polyvinyl alcohol, polyethylene oxide, Polyacrylamide, polyacrylic acid, a polyvinyl pyrrolidone, a carboxyvinyl polymer, polyvinyl ether, a polymer lane acid copolymer, a methoxy ethylene maleic-anhydride copolymer, an isobutylene maleic-anhydride copolymer, polyethyleneimine, etc. can be blended. As a resolvent, benzyl alcohol, mentha oil, myristic-acid isopropyl, crotamiton, etc. can be blended.

[0015] As coloring matter, red No. (Amaranth) 2, red No. (erythrosine) 3, (1), (phloxine B) of red No. (new coccine) 102 and red No. 104 (1) and a (rose bengal) of red No. 105, red No. (acid red) 106, Certified colors, such as yellow No. (Tartrazine) 4, yellow No. (sunset yellow FCF) 5, green No. (fast green FCF) 3, blue No. (brilliant blue FCF) 1, and blue No. (indigo carmine) 2, may be blended. Although not limited especially about coloring matter, a pharmaceutical preparation image is affected greatly and it leads to improvement in a feeling of use, or the feeling of activation of the skin. [0016] As a surface active agent, sodium dioctyl sulfosuccinate, an alkyl sulfate salt, Anionic surfactants, such as 2-ethylhexyl alkyl-sulfuric-acid ester sodium salt and normal sodium dodecylbenzenesulfonate, Hexadecyl trimethylammonium chloride, octadecyl dimethylbenzyl ammoniumchloride, Cationic surfactants, such as polyoxyethylene dodecyl monomethyl

mmoniumchloride, Polyoxyethylene stearylether, the polyoxyethylene tridecyl ether, The olyoxyethylene nonylphenyl ether, polyoxyethylene octyl phenyl ether, Polyoxyethylene monostearate, orbitan monostearate, Sorbitan mono-PAL MINETO, sorbitan sesquioleate, polyoxyethylene sorbitan nonolaurate, Nonionic surface active agents, such as polyoxyethylene sorbitan monooleate, glycerol nonostearate, polyglyceryl fatty acid ester, and a polyoxyethylene octadecyl amine, etc. may be lended.

2017] As an ultraviolet ray absorbent, p aminobenzoic acid and p-aminobenzoic-acid ester PARAJI nethylamino amyl benzoate, salicylate, anthranilic-acid menthyl, Umbelliferone, the esculin, cinnamic-acid benzyl, cinoxate, A GUAI azulene, urocanic acid, 2-(2-hydroxy-5-methylphenyl) benzotriazol, 4-methoxybenzophenone, The dioxybenzone, OKUTABENZON, a hydroxy dimethoxy benzophenone, SURISOBENZON, a benzo resorcinol, octyl dimethyl paraminobenzoate, ethylhexyl PARAMETOKISHI cynamate, etc. may be blended.

As an inorganic bulking agent, titanium oxide, talc, a zinc oxide, a water silica, a magnesium arbonate, calcium hydrogenphosphate, a magnesium silicate, the diatom earth, a silicic acid anhydride, bentonite, etc. may be blended. As a pH regulator, an acetic acid, formic acid, a lactic acid, a tartaric cid, oxalic acid, a benzoic acid, A glycolic acid, a malic acid, a citric acid, a hydrochloric acid, a nitric cid, a sulfuric acid, a sodium hydroxide, A potassium hydroxide, monomethylamine, ethylamine, ropylamine, dimethylamine, Diethylamine, a dipropylamine, a trimethylamine, triethylamine, ripropylamine, a mono-methanol amine, monoethanolamine, mono-propanolamine, a dimethanol mine, diethanolamine, dipropanolamine, trimethano RUAMIN, triethanolamine, tripropanolamine, etc. tay be blended.

0019] As a base fabric, flexible things, such as nonwoven fabrics, such as a layered product of films ade of synthetic resin, such as polyethylene, polypropylene, an ethylene-vinylacetate copolymer, a inyl chloride, polyurethane, polyester, a polyamide, rayon, polyurethane, and polyester, an elasticity onwoven fabric, a nonwoven, said film made of synthetic resin and sheet, a nonwoven fabric, or a onwoven and absorbent cotton, cloth, an elasticity cloth, paper, and cellophane, are raised, and it can noose suitably according to the application. It is very convenient if you stick on the face etc. the pack gent layer which prepared the pack agent layer on the base fabric which consists of a flexible base aterial, constituted in the form of covering the front face of this pack agent layer with the film or paper f detachability further, exfoliated and exposed the detachability film etc. at the time of use. Moreover, a sheet-like object is processed for punching etc. according to an adaptation part, it will be easy to use Although not limited especially about the color of a base fabric, a pharmaceutical preparation image affected greatly, it leads to improvement in a feeling of use, or the feeling of activation of the skin, nd white, flesh color, yellow, red, orange, green, blue, pink, a light blue, etc. are desirable. 0020] As the manufacture approach of the sheet-like pack agent of high water of this invention, the pove-mentioned component is mixed and/or dissolved in homogeneity in an agitator, and they are chromatic or the thing which spreads on the dyed base fabric, sticks a film, and is judged in the form of e face about this. Moreover, it is made as easy to cut an eye, a nose, opening, and a jaw in a suitable onfiguration suitably, and to deal with it as possible. In addition, as for a sheet-like pack agent, it is esirable to save the time of use in a sealing container from the semantics which prevents reduction of e effectiveness by the contamination under preservation, evapotranspiration of volatile matter, etc. 0211

function] By this configuration, the sheet-like pack agent of high water of this invention can show the beration which was excellent in the following. While being able to raise adhesiveness, coherent, and hape retaining property as a water soluble polymer by blending 3 - 25 % of the weight into narmaceutical preparation, the fall of water absorption power and ununiformity-ization of a plaster ody can be prevented, and a feeling of use can be raised. Moreover, these operations can be further ised by carrying out specified quantity combination of the metal salt of polyacrylic acid as a water bluble polymer. Since polyhydric alcohol, especially glycols are blended, in a system, to homogeneity, water soluble polymer, a moisturizing component, a cross linking agent, a lustrous skin component, a tiseptics, etc. can be distributed and dissolved, and can be homogenized. Moreover, the emission

ure and vaporization nature of water can be promoted, the critical relative humidity of the basis nponent except water can be reduced, and it makes it possible to take out more water outside at the e of use. Comfortable coolness can be given, while taking heat of vaporization and suppressing a hot sh of a face and inflammation, when grace is given to the skin as the result and water vaporizes side. Moreover, the temperature dependence of glycols of viscosity is small, and also when it blends o pharmaceutical preparation, it can give the stable shape retaining property which is not influenced the environmental variation. As a moisturizing component, since the acylation KEFIRAN water ution (three-ministry medicine manufacture incorporated company make) and the malt extract are ed, the water retention and shape retaining property before adhesiveness, coherent, homogenization of , and use can be maintained, and the feeling of use after the time of use and use can be raised. Since it es as a cross linking agent combining any one sort or these of a water poorly soluble aluminium npound or a polyfunctional epoxy compound, while giving moderate adhesiveness, coherent, and pe retaining property to pharmaceutical preparation, water absorption power can be maintained, too ch viscosity rise under manufacture can be prevented further, and the improvement in nogenization of the plaster body by gelation and the safety to the skin and a comfortable feeling of can be given. As a lustrous skin component, when water-soluble placental extract, allantoin, etc. are ed especially, it has promotion of the whitening effectiveness, the cell activation effectiveness, and culation, sthenia of metabolism, control of melanin generation, and a cell proliferation operation, neration of still newer skin tissue can be promoted, and it can give antiallergic, anti-inflammatory, and i-stimulative one to pharmaceutical preparation, water distributes and dissolves at the homogeneity of vater soluble polymer, a moisturizing component, a cross linking agent, a lustrous skin component, iseptics, etc., and is as homogeneous as other compounding agents in pharmaceutical preparation njointly -- it can emulsion-ize. Moreover, since it is high water content and a difference with critical ative humidity becomes larger while being able to raise the relative humidity of the pharmaceutical paration itself, comfortable coolness can be given, while taking heat of vaporization and suppressing ot flash of a face and inflammation, when it becomes possible to take out much water outside ciently by the time of use, and grace is given to the skin as a result and water vaporizes in the ernal world. Since specified quantity addition of the antiseptics is carried out, putrefaction by the ld in pharmaceutical preparation and generating of a bacillus can be prevented, and a comfortable ling of use can be given. cample] Although an example and the example of a trial explain the sheet-like pack agent of this

ention in more detail below, these do not limit this invention at all.

cample 1) 76.5~% of the weight of purified water is made to distribute 4~% of the weight of synthetic minum silicate, 1 % of the weight of gelatin, 0.1 % of the weight of 2% succinyl KEFIRAN water utions, 0.05 % of the weight of ethylene glycol diglycidyl ether, 2 % of the weight of water-soluble cental extract, 0.1 % of the weight of allantoins, and 0.2 % of the weight of methylparaben are added this, and it dissolves in it, and it stirs until it adds 6 % of the weight of sodium polyacrylate, 10 % of weight of polyethylene glycols, and the mixture of 0.05 % of the weight of propylparabens further I becomes homogeneity. Next, it spreads so that it may become the thickness of about 1.4mm to the se fabric which dyed this light blue, and a film is stuck. Moreover, after attachment was judged in the m of a face, cut an eye, a nose, opening, and a jaw in the suitable configuration, and obtained the eet-like pack agent. Subsequently, it evaluated by performing the stability test (example 1 of a trial) h the passage of time and component emission trial (example 2 of a trial) which are mentioned later ng the obtained sheet-like pack agent.

23] Table 1 (Examples 2-19) Or (Table 3) with the compounding agent and loadings which are own, it prepared like the example 1 and the sheet-like pack agent of examples 2-19 was obtained. bsequently, it evaluated by performing the skin safety test (example 3 of a trial) and the feeling aluation trial of use (example 4 of a trial) which are mentioned later using the sheet-like pack agent of ch acquired example. In addition, an acylation KEFIRAN water solution is 1.5% succinyl KEFIRAN ter solution (example 3), 3% succinyl KEFIRAN water solution (example 4), 1% succinyl KEFIRAN

ter solution (example 6), 5% succinyl KEFIRAN water solution (example 8), 1% acetyl KEFIRAN ter solution (example 10), 10% acetyl KEFIRAN water solution (example 11), 10% succinyl FIRAN water solution (example 13), The sheet-like pack agent of each example was produced using Maley Luke Filan water solution (example 14), 2% succinyl KEFIRAN water solution (example 1, and 10% Maley Luke Filan water solution (example 17).

						
実施例 分(%)	2	3	4	5	6	7
ラチン	2.5	2	1	0	1	0
リアクリル酸ナトリウム	7	8	5	8	6 .	5
リエチレングリコール	-	5	20	5	7	8
リプロピレングリコール	10	_	_	4		_
シル化ケフィラン水溶液	-	0.1	0.5	-	5	- 1
芽根エキス	0.1	0.1	_	5	_	0.5
オリン	9.9		_	5	_	-
成ケイ酸アルミニウム	-	1	2	1	4	1
ルビトール	_′	0.05			0.01	0.5
ポリグリシジルエーテル	_	0.05	_	_	0. 01	0.5
リエチレングリコール						
ジグリシジルエーテル	0.1	-	_		_	_
リセリン						
ジグリシジルエーテル	-	_	-	0.2		
リセリン・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・			0.00			
トリグリシジルエーテル	-	_	0.08	_	_	_
容性プラセンタエキス	_	5		0.1	3	_
ラントイン	0.1	-	1		0.5	0. 2
チルパラベン	0.2	_	0. 1	0. 15	1.0	_
チルパラベン	_	_	-	-	- .	-
ロピルパラベン	_	0. 01	0.05	0. 01	_	0. 15
素(青色 1 号)	_	_	. 001	_	_	-
素(赤色2号)	. 005		1	_	-	_
料	_,	.001	-	0.01	-	-
	70.1	78.7	70.3	71.5	72.5	84.8
布(染色)	非染	淡赤	非樂	非染	淡赤	淡青

ble 2]

成分(%)	8	9	1 0	11	1 2	1 3	1 4
ゼラチン	3	1	1	_	2	-	_
ポリアクリル酸ナトリウム		3. 5	3	5	8	3	25
ポリエチレングリコール	_	2	1	_	_	15	5
ポリプロピレングリコール	1	3	_	3	4	20	-
アシル化ケフィラン水溶液	0.01	-	20	0.05	_	. 005	0.01
麦芽根エキス	_	0.01	_	_	10	. 005	-
カオリン	_	_	13.5	19.0	3	 	9. 9
合成ケイ酸アルミニウム	0.01	0.4	1		2	1	
プロピレングリコール						0.15	0.1
ジグリシジルエーテル	-	0. 1	0.5	-	-	0.15	0.1
ポリグリセロール					0.00		
ポリグリシジルエーテル	0.04	-	-	_	0.02	_	:-
エチレングリコール							
ジグリシジルエーテル	-	_	-	1			_
水溶性ブラセンタエキス	0.01	20		,	9	0.1	. 005
アラントイン	_		0.01	0.05	1	0.2	. 005
メチルパラベン	0.9	10	_	5	0.5	0.3	_
エチルパラベン		-		-	-		_
プロピルパラベン	_	_	.005	_	0.03	0.1	0.01
色素(緑色 8 号)	1	_		. 003	_	_	-
色素(黄色 4 号)	_	-	-	_	-	0.01	
香料	_	1	_	_	_	0.1	
k	95.0	65.0	60.0	66. 9	60.5	60.0	60. 0
基布(染色)	,淡緑	非染	非染	非染	淡黄	非染	非染

Table 3]

成分 (%)	1 5	1 6	1 7	18	1 9
ゼラチン	5	1	3	0.5	3.5
ポリアクリル酸ナトリウム	15	10	1	7.5	5.5
ポリエチレングリコール	10	15	3	25	5
ポリプロピレングリコール		10	<u> </u>	_	5
アシル化ケフィラン水溶液	0.2	-	0.03		-
麦芽エキス	0.2	0.05	0.02	0.01	0.09
カオリン	0.5	_	_	_	1
合成ケイ酸アルミニウム	3.3	_	2	0.5	4
エチレングリコール		7.			0.01
ジゲリシジルエーテル	_	0.5	_	0. 1	0.01
グリセリン	_	_	0.75	0.3	0. 04
トリグリシジルエーテル			0. 10	0. 3	0. 04
水溶性プラセンタエキス	_	0.1	0.05	0.02	0.04
アラントイン	5	0.1	_	1	0. 01
ケトチフェン	-	ı	1	0.5	. 1
フマル酸ケトチフェン	1	1	-	1	1
メチルパラベン	_	_		0. 25	0.1
エチルパラベン	0. 5	0. 2	0. 15	_	0.1
プロピルバラベン	0.2	0.02	-	-	0.01
クロタミトン	_	_	_	I	_
色素(赤色3号)	. 002	_	-	_	_
色素(背色2号)	_	.002	-	_	_
香料	_]	.005	-	-	_
水	60.1	63.0	90.0	64.3	74.7
基布(染色)	非染	非染	非染	非染	非染

[0024] Table 4 (Examples 1-5 of a comparison) With the compounding agent and loadings which are shown, these were mixed and/or dissolved in homogeneity and the pack agent and sheet-like pack agent which are shown in the example 1 of a comparison thru/or 5 were obtained. After spreading so that it may use for the below-mentioned evaluation trial as it is as a pack agent about the example 1 of a comparison, and the example 2 of a comparison, and it may become the thickness of about 1.4mm to a base fabric about the example 3 of a comparison, and the example 5 of a comparison, and it may become the thickness of about 1mm on an urethane system film about the example 4 of a comparison, the film was stuck, and it judged in the form of the face, and used for the below-mentioned evaluation trial as a sheet-like pack agent. In addition, the pack agent of the example of a comparison was produced by the formula (example 1 of a comparison) of the example 1 of JP,54-49334,A, and the formula (example 2 of a comparison) of the example 1 of JP,63-15243,B. Moreover, the example 3 of a comparison thru/or the sheet-like pack agent of 5 were respectively produced by the formula (example 3 of a comparison) of the example 1 of JP,61-260007,A, the formula (example 4 of a comparison) of the example 3 of JP,63-60724,B, and the formula (example 5 of a comparison) of the example 8 of a formula of JP,5-295004,A. Moreover, caliph REXX TR-1107 are a trade name by the shell chemistry company, and Al Cong M-70 is a trade name by the Arakawa chemical-industry company. [Table 4]

成分(%)	1	2	3	4	5
ポリアクリル酸ナトリウム	6	6	12		7
ポリアクリル酸	-	-	2	_	30
グリセリン	23	20	42		20
プロピレングリコール		5	1	_	-
カルギキシメチルセルロースナトリウム	4	0.7	_	T -	_
メチルセルロース	2	-	T -	_	_
ゼラチン	3	<u> </u>	 -	_	 -
酸化チタン		<u> </u>	_	_	1
カオリン	7	-	_	-	
カリ・ミョウバン微粉末	T -	-	0.5	T -	-
軽質無水ケイ酸	-	2	-	_	_
塩化アルミニウム	_	_	-	-	0.3
水酸化アルミニウムゲル	_	0. 2	_	_	_
ソルビタンモノオレエート	_	_	-	2. 3	1
ポリオキシエチレンソ/ルビタソモノオレエート	_		0.5	-	
クエン酸	0.5	-	-	_	_
乳酸	_	1.5	_	_	_
アラントイン	0. 15	_	0.5	_	_
アセチルケフィラン水溶液	_	_	_		10
ビタミンA油	微量	_	_	_	
ビタミンC	_	_	2	_	-
ビタミンE			0.5	_	-
トコフェロール	_	_	_	0.15	_
軽質流動パラフィン	_	_	_	18.6	-
スチレン・イソブレン・スチレンテレブロックエラストマー (カリフレックス TR-1107)	-	, –	-	9.3	-
石油系樹脂(フルコン M-70)	_	-		7. 7	_
局方炭酸カルシウム	-	_	-	31	_
色素(青)				微量	
水 (残量)	54. 4	64.6	40	31	30.7
基布(染色)	無	無	非染	フィルム	非染

[0025] (Example of a trial)

(Example 1 of a trial) The stability test of pharmaceutical preparation physical properties with the passage of time was carried out about each sheet-like pack agent of the stability test example 1 with the passage of time and the examples 3, 4, and 5 of a comparison. The test method observed the pharmaceutical preparation change about the adhesiveness, the shape retaining property, and the hardness at the time of preservation for six months at the first stage and 40 degrees C. The test result was shown in (Table 5).

[Table 5]

保存条件	試料	粘着性	保型性	硬き
	実施例1	適当	良好	適当
	比較例3	小	良好	硬い
初期一	比較例4	強すぎる	ダレる	軟らかい
, i	比較例 5	強すぎる	良好	硬い
	実施例 1	適当	良好	適当
40°C-	比較例3	小	ダレる	硬すぎる
6ヶ月間	比較例 4	強すぎる	ダレる	軟らかい
	比較例 5	強すぎる	良好	硬すぎる
	·			

this (Table 5) -- from -- although aging was not accepted at all under severe conditions, as for the sheetike pack agent of an example 1, the thing of the example of a comparison showed remarkable aging, so that clearly. That is, it turned out that, as for the thing of the example 3 of a comparison, shape retaining property and hardness deteriorate, as for the thing of the example 4 of a comparison, shape retaining property deteriorates, as for the thing of the example 5 of a comparison, hardness deteriorates, and use is not borne.

(10026] (Example 2 of a trial) The component burst size from pharmaceutical preparation was checked about each sheet-like pack agent of the component emission trial example 1 and the examples 3, 4, and 5 of a comparison. A test method is 2 7x10cm. Under the pasting conditions whose temperature is 25**1 degree C and whose humidity is 60**5%, what was clipped was stuck for 30 minutes and on the skin during 60 minutes, and was made into the component burst size in quest of the weight after exfoliation from the weight before pasting. the result -- Table 6 and (Table 7) it is shown. In addition, (Table 6) shows the component burst size after after [pasting] 30-minute progress, and (Table 7) shows the component burst size after after [pasting] 60-minute progress.

Table 6]

試料	貼付前重量(g)	剝離後重量(g)	成分放出量(g)
実施例 1	7. 5476	5. 4809	2.0667
比較例 3	7. 5353	6. 3645	1.1708
比較例 4	5. 7232	5, 0829	0. 6403
比較例5	7. 5409	6. 6704	0.8705

Table 7]

試 料	貼付前重量(g)	剝離後重量(g)	成分放出量(g)
実施例 1	7, 5476	3. 6089	3. 9387
比較例3	7. 5353	4. 8462	2. 6891
比較例4	5. 7232	4. 8693	0. 8539
比較例 5	7. 5409	6. 4311	1.1098

his (Table 6) -- from -- the example of a comparison had only 15.5% (example 3 of a comparison), 11.2% (example 4 of a comparison), and 11.5% (example 5 of a comparison) to the thing of an example 1 having no less than 27.4% of component burst size in the phase which passed for 30 minutes so that clearly. Moreover, as for the thing of an example 1, the thing of the example of a comparison had [the otal burst size of 60 minutes after] only 35.7% (example 3 of a comparison), 14.9% (example 4 of a comparison), and 14.7% (example 5 of a comparison) to 52.5% so that clearly from (Table 7). This howed that the sheet-like pack agent of this example had a remarkable component emission operation

to the example of a comparison.

[0027] (Example 3 of a trial) The skin safety test was carried out about the skin safety test examples 2, 3, and 7 and the example 1 of a comparison thru/or 5. The test method performed the 48-hour closed patch by 40 healthy people man and woman, observed the change condition of the skin after after [exfoliation] 1 hour and, and 24-hour progress, and evaluated whenever [skin stimulus] in accordance with the following criteria. The test result is shown in (Table 8).

-: cavitation critical on the rubor ++:skin clear on the rubor +:skin feeble on **:skin change is not

accepted to be to the skin [Table 8]

ccepted to be to the skin [Table 8]								
剝離	後の	判定	++	+	±	_	合計	陽性率
経	過時間	試料	<u> </u>	'	_		(人)	土以上
		実施例 2	0	0	1	39	4 0	2, 5
1		実施例 3	0	0	0	40	4 0	0.0
		実施例7	0	0	0	40	4 0	0. 0
1	時間後	比較例 1	0	0	1	39	4 0	2. 5
1	-WIPIEC	比較例 2	0	0	0	40	4 0	0. 0
l		比較例3	0	0	1	39	4 0	2. 5
		比較例 4	0	1	10	29	4 0	27.5
		比較例 5	0	2	6	32	4 0	20.0
		実施例 2	0	0	0	40	4 0	0. 0
		実施例 3	0	0	0	40	4 0	0.0
		実施例7	0	0	0	40	4 0	0.0
9.4	時間後	比較例1	0	0	0	40	4 0	0.0
2 4	#41)#116%	比較例 2	a	0	0	40	4 0	0. 0
		比較例 3	0	0	0	40	4 0	0. 0
		比較例 4	0	2	8	30	4 0	25. 0
		比較例 5	0	0	5	35	4 0	12.5

his (Table 8) — although the rate of a positivity was not accepted for all things of an example clearly like even if 24 hours passed after exfoliation, the thing of the examples 4 and 5 of a comparison was accepted 13% to no less than 25%. This shows that the sheet-like pack agent of this example is a pack agent with it. [stimulative / to the skin / very low /, and] [gentle to people's skin] 0028] (Example 4 of a trial) The feeling test of use was carried out about the feeling evaluation trial of asse-organoleptics examples 4, 5, and 6 and the example 1 of a comparison thru/or each sheet-like pack agent of 5. The test method computed the average mark of five-step evaluation (five-point full marks) for evaluation of after use and the next morning (after 24-hour progress) in accordance with the following criteria before use at the time of use by 20 healthy people women, the test result — (Table 9) and (Table 10) — Table 11 and (Table 12) it is shown. The evaluation after use was shown in the evaluation at the time of use, and (Table 11), and evaluation of the next morning (after 24-hour progress) was shown in (Table 12) in the evaluation before use, and (Table 10) at each (Table 9). The point — four considered very so point — three considered a little so point: — two which can be alled neither point: — a little more than — one which is not considered so point: — I do not think so at all Table 9]

(使用前の評価)	外観の良さ	清涼感を	気持 よさそう	活性化 されそう
実施例 4	3. 9	4. 8	4. 8	4. 0
実施例 5	3. 6	4. 2	4. 1	3.7
· 実施例 6	4.2	4. 0	4. 7	4.2
比較例 1				
比較例 2				
比較例3	3. 4	3. 9	4.0	3. 5
上較例 4	2.3	1.2	1.5	1. 2
比較例 5	3. 1	3.0	3. 0	2. 6

[Table 10]

10010 10]					
(使用時の評価)	肌への浸透感	気持 よい	肌との感	冷感が 心地よい	つっぱり 感がない
実施例 4	3. 5	4. 2	4. 1	4. 4	3. 4
実施例 5	3. 4	4.1	3.8	4.0	3. 6
実施例 6	3. 6	4.4	3. 9	4. 3	3. 4
比較例 1	3.5	2.3	3, 3	2.3	2. 3
比較例 2	3. 6	2.5	3. 3	2. 5	2. 1
比較例3	3. 0	3.2	3. 0	3. 6	3. 3
比較例 4	2.8	1.0	1.0	1.2	1.5
比較例 5	2. 8	2. 9	2.7	3. 1	2. 1

[Table 11]

(使用後の評価)	つるつる になった	ハリが でた	即なてき	気性 低き	冷感で 活性化
実施例 4	3.7	2.9	2. 9	2.9	3.6
実施例5	3. 7	3. 1	3.1	3.0	3. 9
実施例 6	3. 9	3.0	2. 9	3.2	3. 8
比較例1	3. 0	2.8	2, 7	2.4	3. 1
比較例 2	2.8	2.7	2.7	2, 5	3. 3
比較例3	3. 1	2. 4	2.5	2. 3	3. 3
比較例4	2.3	z . 2	1.9	2.1	2. 5
比較例5	2.7	2, 6	2.0	2.1	2. 6

	キメが そろった	やならな	しっとり 潤った	べたべた しない	効果を 実感した
実施例4	3. 3	3. 8	4. 1	4.4	3, 3
実施例5	3. 0	3. 5	4.0	4. 1	3. 3
実施例 6	3. 4	4. 1	4.5	4. 5	3. 4
、比較例1	2. 8	3. 0	2.5	1.7	3. 0
比較例2	2. 8	3.1	3. 1	2.0	2. 9
比較例 3	3. 1	3.2	3.2	4.0	2.5
比較例 4	2. 0	2.7	1.9	1.6	2. 2
比較例 5	2. 6	2. 9	2. 3	1.5	2. 3

Table 121

肌がイキ イギした	作禁るい	肌にハリ がでた	肌が潤った
3. 1	3. 4	3. 1	3. 5
3. 2	3. 3	3, 1	3. 6
3. 3	3. 6	3, 4	8.7
2. 9	3. 2	2. 6	2. 4
3. 0	3.0	2. 8	2.5
3. 0	2. 9	2.7	3.1
2. 8	3. 2	3. 1	2.3
2.8	3.0	2.7	2.5
	3.1 3.2 3.3 2.9 3.0 3.0 2.8	3. 1 3. 4 3. 2 3. 3 3. 3 3. 6 2. 9 3. 2 3. 0 3. 0 3. 0 2. 9 2. 8 3. 2	3. 1 3. 4 3. 1 3. 2 3. 3 3. 1 3. 3 3. 6 3. 4 2. 9 3. 2 2. 6 3. 0 3. 0 2. 8 3. 0 2. 9 2. 7 2. 8 3. 2 3. 1

his (Table 9) -- or (Table 12) -- from -- the thing of this example was all able to obtain high evaluation of the thing of the example of a comparison so that clearly. Moreover, while in use, the thing of each example does not have sense of incongruity compared with the thing of the example of a comparison, and gave a pleasant sensation, and it turned out that it is what the skin gets wet, and after use does not have a feeling with Beto like the example of a comparison, and gives invigoration. It became clear that his invention quantity water sheet-like pack agent is excellent in skin safety and the stability of charmaceutical preparation physical properties with the passage of time, and its component (mainly moisture) emission nature is high, and the effectiveness over a feeling of use and the skin is high as mentioned above.

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Effect of the Invention] As mentioned above, the sheet-like pack agent of this invention uses a water oluble polymer, polyhydric alcohol, a moisturizing component, a cross linking agent, a lustrous skin component, and water as a major component, and adds antiseptics if needed further. Furthermore, since that the configuration further blended with 3 - 25 % of the weight of water soluble polymers, 1 - 35 % of the weight of polyhydric alcohol, 0.01 - 20 % of the weight of moisturizing components, 0.05 - 20 % of the weight of cross linking agents, 0.01 - 20 % of the weight of lustrous skin components, and 60 - 95 % of the weight of water from 0.005 - 10 % of the weight of antiseptics if needed, the following outstanding effectiveness can be done so. That is, a handling is simple, and it has the moderate adhesiveness over the skin, and a feeling of use is excellent.

- b. While excelling in the safety to the skin, excel in the stability of pharmaceutical preparation physical properties with the passage of time remarkably.
- c. There is the outstanding cooling effect by high water, and bring about comfortable coolness.
- I. There is the outstanding endoergic effectiveness by high water, and there is an operation which uppresses a hot flash of the skin and inflammation.
- e. There is a moisturization operation which excelled after use, give grace to the skin, and smooth the kin.
- The effectiveness over the ready skin and cosmetics is excellent.
- s. Since it has moderate adhesiveness, while being able to give productivity that the handling by the production process is easy, and high, since the stability of pharmaceutical preparation physical properties is high, don't produce physical-properties change in long-term storage, either, and excel in torage nature or distributivity.
- The application force in the quasi drugs used for the ready skin and cosmetics or the cosmetics field is possible, and it is very useful on industry.

Translation done.]